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SCIENCES

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# Public Health Reports

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A COMPARISON OF THE EFFECT OF PENICILLIN AND IMMUNE SERUM IN THE TREATMENT OF EXPERIMENTAL LEPTOSPIROSIS IN YOUNG WHITE MICE AND IN HAMSTERS <sup>1</sup>

By C. L. Larson, Passed Assistant Surgeon, and J. J. Griffitts, Passed Assistant Surgeon, United States Public Health Service

The use of penicillin in the treatment of guinea pigs infected with Leptospira icterohaemorrhagiae has been demonstrated to be of value when the drug is administered shortly after the infective dose has been given. It is the intention here to present data comparing the value of specific immune serum and penicillin in the treatment of leptospirosis icterohaemorrhagica in 3-week-old albino Swiss mice in which therapy was initiated at varying intervals after infection had been induced, and similarly to report the effect of these drugs on L. canicola infections in hamsters.

Heilman and Herrell (1) studied the effect of penicillin on leptospirosis icterohaemorrhagica in guinea pigs and found that the drug produced a marked beneficial effect when treatment was administered from 17 hours to the third day after inoculation with infective material. Larson (2) studied the effect of specific immune serum on the course of this disease in young albino Swiss mice and reported serum to be of value even when administered as long as 4 days after initiation of infection. Infections with L. canicola in hamsters (Cricetus auratus) are likewise favorably influenced by administration of immune serum (3).

#### MATERIALS AND METHODS

Three-week-old albino Swiss mice from the colony maintained at the National Institute of Health were used to determine the effect of treatment upon infection with *L. icterohaemorrhagiae*. Hamsters of about 4 weeks of age were employed for testing the effect of drugs upon infections due to *L. canicola*.

<sup>&</sup>lt;sup>1</sup> From the Division of Infectious Diseases and the Biologics Control Laboratory, National Institute of Health.

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Serum (H) from horses immunized with *L. icterohaemorrhagiae* which had an agglutination titre of 1:1,000,000 against this organism was used in some tests and serum (R) from an immunized rabbit having a titre of 1:100,000 against this organism was employed in the remainder of the tests.

The sodium salt of penicillin was used. This was diluted in normal salt solution and was stored under CO<sub>2</sub> refrigeration in 4-cc. quantities until needed. Dilutions were made from this into salt solution so that the desired number of units could be administered in doses of 0.5 cc.

Animals were routinely infected with 0.3- to 0.5-cc. amounts of 10-percent liver and kidney tissue suspension in salt solution. Mice infected with *L. icterohaemorrhagiae* were sacrificed on the third day after inoculation to provide infective material. At this time large numbers of organisms were present in smears of blood taken from the tail and examined under dark-field illumination. Variations in the survival time of animals infected with these suspensions occur, as it is extremely difficult to administer comparable numbers of organisms in suspensions of infective tissues. The strains used had been recently isolated from wild rats and were virulent for young white mice and guinea pigs.

The strain of *L. canicola* employed was obtained from the Army Veterinary School and had been found to be virulent for hamsters. Doses of 1.0 cc. of a 4-day-old culture incubated at 32° C. in Verwoort's medium were inoculated intraperitoneally into hamsters to produce illness.

Treatment was initiated at varying intervals after infective material had been given, and doses of 0.5 cc. of immune serum diluted 1 to 5 in salt solution or of penicillin of varying dilutions were injected intraperitoneally. Immune serum was administered in a single dose to animals while penicillin was administered in series of 6 or 8 doses given twice daily at about 8:30 a. m. and 4:30 p. m. Untreated controls were also included in each test. Observations were continued for 14 days before the experiments were terminated.

## EXPERIMENTAL

A study was planned to determine the comparative effect of serum and penicillin on infections with *L. icterohaemorrhagiae* produced in young albino Swiss mice when 50 units of penicillin or 1:5 dilutions of immune serum in 0.5-cc. quantities were administered intraperitoneally 75 hours after infective material had been given. Three strains (ADIA, ADIB, and AD4) of organisms recently isolated from wild rats were used and 10-percent suspensions of liver and kidney tissues taken from infected mice were inoculated intraperitoneally in 0.4-cc. amounts into 3 groups of 24 mice each. Each group was then divided into 3 lots of 8 mice each. Treatment was started 75 hours

after inoculation of these materials. One lot from each of the 3 groups was treated with 50 units of penicillin repeated twice daily until 400 units had been given; and another lot from each group was treated with a single dose of diluted immune serum (R). The remaining lot in each group served as controls. The results, as shown in table 1, suggest that immune serum and penicillin as employed in this study had somewhat comparable therapeutic effects, varying considerably in mice, depending upon the stage of illness when therapy was instituted. If the dosage is so adjusted that the controls succumb soon after therapy is started in the treated animals little benefit is noted in the animals receiving immune serum or penicillin, while if the controls survive for 3 to 4 days after therapy is initiated in the treated lot, the beneficial result is marked in the animals receiving treatment.

Table 1.—Showing effect of intraperitoneal injection of 50 units of penicillin administered twice daily for 4 days and a single dose of 0.5 cc. of diluted immune serum (R) upon leptospirosis in young mice when treatment is instituted 75 hours after infection is induced with different strains of L, icterohaemorrhagiae

Strain of	The state of the s	Num- ber of					78	Ratio o	
L. icterohaemorrhagiae	Treatment	mice in each lot	4 5		6	7 8		survival	
ADIBADIB	Penicillin Serum None	8 8 8	3 3 3	3 3 3	1 2 2	1		0/8 0/8 0/8	
ADIAADIA	Penicillin Serum None	8 8 8	3 3	1 1 8	******			4/8 4/8 0/8	
AD4 AD4	Penicillin Serum None	8 8 8				3	5	8/8 8/8 0/8	

In another test 80 mice were injected intraperitoneally with 0.3 cc. of a 10-percent suspension of infective mouse liver and kidney in salt solution (strain ADIB). The mice were divided into 5 lots of 16 mice each. One lot served as controls to which no treatment was given. All of the controls died during the interval between 90 and 124 hours after inoculation with infective material. Immune serum (R) was administered to 2 lots of mice. One lot was treated 44 hours after being infected; no deaths occurred among the animals. The other lot was treated 77 hours after being infected and 11 of 16 mice succumbed to infection. Similar lots of mice were treated with penicillin. The dose of penicillin was 50 units; this was given twice daily for 4 days. Among the 16 mice in which penicillin therapy was initiated 44 hours after the administration of the infective dose of organisms no deaths occurred, but there were 12 deaths among the 16 mice to which penicillin was first given 77 hours after infection had been induced.

A test was made in which immune serum and penicillin in the quantities given above were administered 52, 68, 72, 78, and 92 hours after

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Table 2.—Results obtained by treating young Swiss mice with 8 repeated intraperitoneal doses of penicillin containing 50 units per 0.5 cc. or with a single dose of 0.5 cc. of diluted immune serum (R) when therapy is started at varying periods after intraperitoneal inoculation of 10 percent tissue suspension containing L. icterohaemorrhagiae (strain ADIB)

Interval between in- duction of infection	Type of therapeutic	Number	1	Number	of death:	s, by day	78	Percent
and initiation of therapy (hours)	agent employed	of mice employed	3	4	5	6	7	recov- ered
52	Serum Penicillin	16- 16	1		1 1	1		87. 5 87. 5
68	Serum Penicillin	16 16	3	4 6	2	1 2	1 1	50. 0 25. 0
72 72	Serum Penicillin	16 16	*******	7 7	4	1 1	<u>i</u>	25. 0 18. 7
78 78	SerumPenicillin	15 16		8 12	4 2	1	1	6. 6 12, 5
92 92	Serum Penicillin	10 10		1 2	9 7		i	0
	None	32	1	13	13	5		0

0.3 cc. of 10-percent tissue suspension (ADIB) had been injected into mice intraperitoneally. This suspension contained about 0.5 leptospira per high-power field when observed under dark-field illumination. Seventy-two hours after administration of the infective material the untreated animals were definitely ill but no jaundice was apparent, while 92 hours after inoculation of infective material jaundice was present in nearly all the mice. The results obtained (table 2) show the value of these agents when administered early in the course of infection. After the mice became definitely ill this effect was materially decreased and by the time jaundice was present the therapeutic results were practically negligible. It appeared possible that the dosage of penicillin employed in the foregoing experiments was too small to exert the maximum therapeutic effect upon leptospirosis in mice. This possibility was tested by treating separate groups of mice infected with L. icterohaemorrhagiae with diluted immune serum and with penicillin solutions containing 50 or 100 units. Groups of 20 mice each were injected intraperitoneally with 0.3 cc. of a 10-percent suspension of infective liver and kidney tissue from mice ill with leptospirosis icterohaemorrhagica. Treatment was started at intervals of 48, 66, 78, and 88 hours after infection. No mice were treated with the larger amount of penicillin at the end of 48 hours, for experience had shown that the smaller dosage was adequate for treatment of leptospirosis at this early stage of the disease, but 2 lots of 20 mice each were treated with immune serum or penicillin in doses containing Three lots of 20 mice each were treated 66 hours after 50 units. administration of the infective dose. Immune serum or penicillin solution containing 50 units or 100 units was injected intraperitoneally into a lot of 20 mice. This procedure was repeated in an additional

lot of 20 mice each 78 hours after infection had been induced. Eightyeight hours after administration of infective material 2 mice were
dead in each of the 3 lots of 20 mice which were to have received the
initial dose of immune serum or penicillin (50 or 100 units). Thus
only 18 mice each received their initial dose of immune serum, 100
units of penicillin, or 50 units of penicillin 88 hours after infection
had been started. Table 3 shows the results obtained. The larger
dose of penicillin appeared to give slightly better results than were

Table 3.—The effect of administration of 8 repeated doses of 50 or 100 units of penicillin or of a single inoculum of diluted immune serum (R) to young Swiss mice at varying intervals after infection with tissue suspensions containing L icterohaemorrhagiae (strain ADIB)

Interval between induction of infection and	Type of therapeutic agent employed	Num- ber of mice		N	umb	er of	deat	ths, t	y da	ys		Percent recoy-
institution of therapy (hours)	agent employed	em- ployed	4	5	6	7	8	9	10	11	12	ered
48 48	Serum Penicillin (50 units)	20 20	1				1					95 95
86 86	Serum. Penicillin (50 units) Penicillin (100 units)	20 20 20	1 2	1 3 1	4 4 2	2 4	2					70 45 55
78 78	Serum Penicillin (50 units) Penicillin (100 units)	20 20 20	9 5 3	2 5 2	6 6	2	1	1				35 15 35
88 38 38	Serum	18 18 18	10 6 2	6 11 7	1 3	1	1				1	0 0 28
	None	40	9	23	5	1	1	1	****			0

obtained with 50 units of this drug and in this experiment there was a significant number of survivors among the animals treated with 100 units of penicillin 88 hours after infection had been induced and at a period when 10 percent of the original group of mice had succumbed.

A similar experiment was performed in which lots of 20 mice each were treated with diluted immune serum (H), 100 or 200 units of penicillin. or diluted immune serum together with 100 units of penicillin at intervals of 66, 72, and 88 hours after the infective agent had been given (table 4). In addition, lots of 10 mice each were given immune serum or 100 units of penicillin 48 hours after the mice were infected. Diluted immune serum and diluted immune serum mixed with 100 units of penicillin were given only once while the penicillin alone was administered intraperitoneally in 6 divided doses of 100 or 200 units each. All materials were given in 0.5-cc. amounts. After an interval of 48 hours following infection, dark-field examination of smears of peritoneal fluid showed the presence of many leptospirae but none were detected by examination of blood smears. Many organisms were present in the blood stream 66 hours after administration of the infectious agent. At the end of 72 hours the untreated mice were listless, the fur rough, and the eyes dull; and by 88 hours the untreated

animals were slightly jaundiced. Marked icterus was apparent in the controls 96 hours after they had been infected. Data accumulated from this experiment do not indicate that large doses of penicillin or combined therapy of a single dose of combined penicillin and serum is of any greater benefit than that obtained with smaller repeated doses of penicillin or with a single dose of immune serum alone.

Table 4.—Effect of treating mice infected with L. icterohaemorrhagiae (strain ADIB) 48, 66, 72, and 88 hours after administration of infective suspension. Serum (H) given in single dose (0.5)cc. of 1:5 dilution), penicillin (100 units) and diluted serum in a single dose and penicillin in 6 repeated doses of 100 or 200 units each

Interval between induction of infec-	Type of therapeutic	Num- ber of		N	umbe	er of	deat	hs, i	by da	ys		Percent
tion and initiation of therapy (hours)	agent employed	mice used	4	5	6	7	8	9	10	11	12	recov- ered
48	Serum Penicillin (50 units)	10 10				1		1				80
66	Serum + penicillin (100 units).	$\frac{20}{20}$	1		1 1	4 3	2 2	1			****	55 65
66	Penicillin (100 units) Penicillin (200 units)	20 20		1	1	$\frac{2}{4}$	1	2	1			70 60
72 72	Serum + penicillin (100 units).	20 20		1	1 4	3	4	1	2	1		45 35
72 72	Penicillin (100 units) Penicillin (200 units)	20 20			11 2	5	1	1		1		10 50
88 88	Serum + penicillin (100 units).	20 20		10 4	5 5	3	2 3				i-	0 15
88 88	Penicillin (100 units) Penicillin (200 units)	20 19	3	9 11	4 4	1		2		1		5
	None	37	2	14	16	4	1					0

A single experiment was performed to determine whether or not penicillin was effective against L. canicola infections in hamsters. group of 12 hamsters approximately 4 weeks of age was inoculated intraperitoneally with 1.0 cc. of a 4-day-old culture of these organisms grown at 32° C. in Verwoort's medium. Therapy was not begun until 66 hours had elapsed after the infective dose was given. At this time 1.0 cc. of a 1:5 dilution of serum from a rabbit previously immunized against L. canicola was given to 4 of the hamsters intraperitoneally and 1.0 cc. of a penicillin solution containing 200 units per cc. was given to 4 other hamsters by the same route, while 4 received no treatment whatever. The immune serum was administered in a single dose but penicillin was given twice daily until 1,600 units had been given. None of the animals receiving serum became ill, while the 4 hamsters serving as controls died on the fourth, fourth, fifth, and eighth days, respectively after being infected. One hamster which received 8 injections (1,600 units) of penicillin (over a period of 4 days) died on the seventh day after being inoculated with organisms. (Three of the animals treated with penicillin were well when the experiment was terminated.) This animal became jaundiced and at

autopsy icterus and hemorrhages of the subcutaneous tissues were observed. Many confluent hemorrhages were present in the lungs and the kidneys, and the right epididymis was hemorrhagic. liver was bile-stained, and numerous leptospirae were demonstrable in smears from this organ examined under dark-field illumination. The icterus and degree of hemorrhagic involvement had not been observed previously in untreated animals dving of infections with L. canicola.

## DISCUSSION

The results obtained in this study show that penicillin and specific immune serum have a marked therapeutic effect upon the course of disease produced by L. icterohaemorrhagiae in young Swiss mice and by L. canicola in hamsters. Both agents were fully effective when administered as late as 48 hours after infection had been induced in mice. but at periods beyond this the value of the drug materially decreased. At the time symptoms appear in mice the infection has progressed to a point where serum and penicillin are unable to cure the majority of mice infected with L. icterohaemorrhagiae, and by the time icterus has appeared among the animals the mortality is practically the same among treated as among untreated animals. The results obtained by use of immune serum alone as compared to those obtained by use of penicillin alone indicate that there is little choice, as here employed, between the drugs as far as efficacy of treatment for leptospirosis in mice and hamsters is concerned.

#### SUMMARY

Mice and hamsters infected with Leptospira icterohaemorrhagiae and L. canicola were treated with specific immune serum and with penicillin at varying intervals after administration of infective material.

The therapeutic effect of penicillin is comparable to that obtained with specific immune serum in the treatment of leptospirosis in experimental animals under the conditions of this study.

# REFERENCES

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# PENICILLIN TREATMENT OF LEPROSY: CLINICAL NOTE 1

By G. H. Faget, Medical Director, and R. C. Pogge, Acting Assistant Surgeon, United States Marine Hospital (National Leprosarium), Carville, La.

Penicillin was tried at the National Leprosarium in the treatment of 7 cases of leprosy in doses of 50,000 to 100,000 units daily which were continued in some cases for a month's time. No specific beneficial effect could be attributed to this treatment either during the course of medication or for 6 months thereafter.

Subsequently two of the previously treated patients and two new patients were given much larger doses of penicillin without effect. Brief case reports on these four patients follow:

Case 6.—Male, 34 years of age, with moderately advanced lepromatous leprosy, was treated during a subacute leprae reaction. It was considered important to note if penicillin had any favorable influence on this condition. The penicillin was injected intramuscularly every 3 hours in doses of 40,000 units for a total of 320,000 units in 24 hours. By the second day of treatment the reaction became more acute with outcropping of new erythema nodosum lesions, chills, and high fever, muscular aches, nausea, and great debility. Nevertheless, penicillin therapy was continued in undiminished doses for 2 more days. It then had to be discontinued because of the severity of the reaction and the extreme debility of the patient. Altogether this patient received 1,280,000 units of penicillin. There were no clinical changes in lepromatous lesions during treatment or for a period of more than 1 month thereafter.

Case 7.—Male, 22 years of age, with moderately advanced mixed type of leprosy, was given 40,000 units of penicillin intramuscularly every 3 hours. Treatment was continued for 10 days totalling 3,200,000 units. This patient had previously been treated with 50,000 units of penicillin daily for a period of 40 days. No clinical changes were noted in leprous lesions. The period of observation was over 6 months following the first course and 1 month following the second course of treatment.

Case 8.—Female, 44 years of age, with moderately advanced mixed type of leprosy, weighing only 90 pounds. She was given 33,000 units of penicillin every 3 hours by intramuscular injections for a period of 10 days, a total of 2,630,000 units. Previously this patient had been treated for 30 days with 50,000 units of penicillin daily. No effects were noted in any lesions for more than 6 months subsequent to the first course of treatment and 1 month following the second.

Case 9.—Male, 20 years of age, with moderately advanced lepromatous leprosy, was treated with 40,000 units of penicillin intramuscularly every 3 hours. Treatment was continued for a little more than 10 days and totaled 3,240,000 units. There were no changes in the discrete nodular lesions of leprosy either during treatment or for 1 month thereafter.

<sup>&</sup>lt;sup>1</sup> This note represents an abstract of a paper entitled, Penicillin used unsuccessfully in leprosy, which will appear in the next issue of the International Journal of Leprosy, Vol. XII (1945).

The accompanying table briefly summarizes data on the nine patients who have received penicillin:

Summary: Penicillin therapy of leprosy

		Pe	nicillin ther	ару	
Case	Clinical type	Units per 24 hours	Duration (days)	Total units	Remarks
1 2	Lepromatous	50, 000 50, 000	23 21	1, 000, 000 1, 000, 000	No effect except healing of ulcers No effect.
3	Mixed	100, 000 50, 000	30	3, 000, 000 1, 500, 000	Do. Do.
5	Lepromatous	50, 000 300, 000	20	1, 000, 000 1, 280, 000	Do. Leprae reaction.
17	Mixed	320, 000 264, 000	10	3, 200, 000 2, 630, 000	No effect. Do.
9	Lepromatous	320, 000	10	3, 240, 000	Do.

<sup>1</sup> These 2 patients had been previously treated with 50,000 units daily for 1 month or more without beneficial effects.

It is concluded that penicillin in doses even larger than those usually found adequate in the treatment of syphilis are ineffectual in the treatment of leprosy.

# ANNOUNCEMENT

# STATE AND TERRITORIAL HEALTH OFFICERS' CONFERENCE

The forty-third annual conference of the United States Public Health Service with the State and Territorial health officers will be held April 9, 10, and 11 in the National Academy of Sciences, 2101 Constitution Avenue, Washington, D. C. All State health officials are urged to attend. The meeting is required by law, and therefore has been approved by the Committee on Conventions. General sessions of the conference are open to all interested persons but attendance by out-of-town visitors is not encouraged in view of travel restrictions.

# PREVALENCE OF COMMUNICABLE DISEASES IN UNITED STATES

January 28-February 24, 1945

The accompanying table summarizes the prevalence of nine important communicable diseases, based on weekly telegraphic reports from State health departments. The reports from each State for each week are published in the Public Health Reports under the section "Prevalence of disease." The table gives the number of cases of these diseases for the 4 weeks ended February 24, 1945, the number reported for the corresponding period in 1944, and the median for the years 1940–44.

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#### DISEASES ABOVE MEDIAN PREVALENCE

Diphtheria.—For the 4 weeks ended February 24 there were 1,242 cases of diphtheria reported as compared with 971 for the corresponding period in 1944 and a 5-year (1940–44) median of 1,158 cases. Increases over the 1944 figures were reported from all sections except the New England and East North Central sections, while increases over the seasonal expectancy occurred in only the West North Central, East and West South Central, and Pacific sections. In the New England, South Atlantic, and Mountain sections the incidence was about normal for this season of the year and in the Middle Atlantic and East North Central sections the numbers of cases were relatively low.

Number of reported cases of 9 communicable diseases in the United States during the 4-week period January 28-February 24, 1945, the number for the corresponding period in 1944, and the median number of cases reported for the corresponding period, 1940-44

Division	Current period	1944	5-year median	Current period	1944	5-year median	Current period	1944	5-year median	
	D	iphther	ia	I	nfluenza	1	1	Measles	2	
United States	1, 242	971	1, 158	17, 922	39, 284	39, 284	8, 107	91, 984	61, 200	
New England	25	33	23	127	234	57	606	5, 527	4, 084	
Middle Atlantic	113	77	173	43	167	167	817	19, 096	19, 096	
East North Central	118	160	163	164	1, 509	1, 509	635	27, 676	7, 455	
West North Central	104	91	97	187	483	483	371	10, 081	4, 196	
South Atlantic	185	137	190	5, 659	10, 615	10, 615	961	14, 809	7, 041	
East South Central	118	69	106	1,086	3, 803	3, 803	268	3, 236	2, 978	
West South Central	338	232	247	9, 817	17, 134	17, 134	1, 208	4, 282	2, 785	
Mountain.	65	49	77	697	4, 077	1, 999	389	3, 403	3, 218	
Pacific	176	123	115	142	1, 262	1, 262	2, 852	3, 874	5, 804	
	Mening	ococcus gitis	menin-	Poliomyelitis		tis	Scarlet		er	
United States	1,034	2, 214	273	172	90	101	22, 910	23, 362	16, 265	
New England	40	129	29	8	2	2	2, 036	2, 344	1, 835	
Middle Atlantic	213	455	61	60	6	8	4, 599	4, 778	3, 945	
East North Central	200	421	20	10	5	17	5, 987	5, 435	4, 801	
West North Central	62	177	19	14	5	10	2, 353	2, 984	1,796	
South Atlantic	161	327	57	21	10	14	2,659	2, 460	1, 159	
East South Central	107	261	43	15	7	9	967	772	735	
West South Central	122	184	52	10	15	13	856	546	439	
Mountain	22	33	12	7	6	6	1, 303	1, 384	734	
Pacific	107	227	12	27	34	19	2, 150	2, 659	865	
	8	mallpo		Typho	id and p hoid feve	paraty-	Whooping cough 2			
United States	43	64	103	258	398	292	9, 357	7, 396	15, 061	
New England	0	0	0	14	9	12	1, 141	597	1, 256	
Middle Atlantic	0	0	0	82	36	36	1,905	1, 273	3, 307	
East North Central	17	16	39	14	207	39	1,625	1, 473	3, 151	
West North Central		5	17	18	8	15	385	515	669	
South Atlantic	2	4	3	32	43	45	1, 246	1, 469	1,941	
East South Central	2	6	6	22	24	24	270	397	580	
West South Central	11	16	16	43	50	46	1, 181	658	658	
Mountain.	2	3	4	12	8	11	531	430	769	
Pacific	8	14	1	21	13	16	1,073	584	1,270	

<sup>&</sup>lt;sup>1</sup> Mississippi and New York excluded; New York City included.

Mississippi\_excluded.

Meningococcus meningitis.—The number of cases of meningococcus meningitis rose from 953 cases during the preceding 4-week period to 1,034 for the current 4 weeks. The current figure was less than one-half of the number of cases reported for the corresponding period in 1944, but it was almost 4 times the preceding 5-year median. An increase in this disease is normally expected at this season of the year and, while the incidence is at a relatively high level, the rate of increase during the current period was about normal. The increases over the 1940–44 medians ranged from 1.4 times the median in the New England section to 10 times the median in the East North Central section.

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Poliomyelitis.—The incidence of poliomyelitis continued at a relatively high level, 172 cases being reported, as compared with 90 cases in 1944 and a 5-year median of 101 cases. Increases over the seasonal expectancy were reported from the Atlantic Coast, East South Central, and Pacific sections, while in other sections the number of cases either closely approximated the median or fell below it.

Scarlet fever.—The number of cases of scarlet fever was slightly below the number reported for the corresponding weeks in 1944, but it was 1.4 times the normal seasonal expectancy (approximately 16,000 cases). An increase over the 1940–44 median was reported from all sections of the country, with the highest relative excesses occurring in the South Atlantic and Pacific sections. With the exception of 1944 the current incidence is the highest since 1938, when approximately 24,000 cases were reported for the corresponding weeks.

# DISEASES BELOW MEDIAN PREVALENCE

Influenza.—For the 4 weeks ended February 24 there were 17,922 cases of influenza reported. The number of cases was less than 50 percent of the number reported for the corresponding weeks in 1944, which figure (39,254 cases) represented the 1940–44 median incidence. The number of cases reported from the New England section was slightly above the seasonal expectancy, but in all other sections the incidence was relatively low. For the country as a whole the current incidence was the lowest since 1938, when approximately 13,000 cases were reported for the corresponding 4-week period.

Measles.—The reported cases of measles rose from 5,362 during the 4 weeks ended January 27, to 8,107 for the 4 weeks ended February 24. An increase of this disease normally occurs at this season of the year. Compared with preceding years, however, the number of cases is the lowest recorded for this period in the 18 years for which these data are available. The nearest approach to the current figure was in 1940 when 22,000 cases were reported for these same weeks.

March 23, 1945 328

Smallpox.—The incidence of this disease remained at a relatively low level. The number of cases (43) reported for the current 4 weeks was about 70 percent of the number reported in 1944 and about 40 percent of the 1940-44 median for the same weeks. While the number of cases (5) in the Pacific region was small, it was 5 times the preceding 5-year median. In all other sections the incidence was considerably below the normal seasonal expectancy.

Typhoid and paratyphoid fever.—For the current 4-week period there were 258 cases of typhoid fever reported as compared with 398 for the corresponding period in 1944 and a 5-year median of 292 cases. In all sections except the Middle Atlantic and East North Central the number of cases closely approximated the preceding 5-year median of 292 cases. In the Middle Atlantic section the number of cases (82) was two and one-third times the median, while in the East North Central section the number (14) was less than one-half of the median. Sixty-three of the total cases reported from the Middle Atlantic section occurred in Pennsylvania.

Whooping cough.—The number of cases of whooping cough reported for the current period was 1.3 times the number reported for the corresponding period in 1944, but it was only about 60 percent of the 1940–44 median incidence. The number of cases was higher than in 1944 in each section except the West North Central and East South Central, but only the West South Central section reported an increase over the 1940–44 median.

# MORTALITY, ALL CAUSES

For the 4 weeks ended February 24 there were 39,286 deaths from all causes reported to the Bureau of the Census by 93 large cities. The average number for the same period in the years 1942–44 was 38,856 cases. While for the 4 weeks the number of deaths was slightly above the preceding 3-year average there was a decline of about 5 percent during the last week of the period from the same week in 1944.

# COURT DECISION ON PUBLIC HEALTH

Substances injurious to health of residents in vicinity—allowing to remain on premises.—(Texas Court of Criminal Appeals; McNeese v. State, 180 S.W.2d 164, decided April 5, 1944, rehearing denied May 24, 1944.) Article 695 of the Texas Penal Code provided: "Whoever shall carry on any trade, business or occupation injurious to the health of those who reside in the vicinity, or suffer any substance which has that effect to remain on premises in his possession, shall be fined not less than 10 nor more than 100 dollars. Each day is a separate offense." It was charged that the appellant suffered substances which

were injurious to the health of those who resided in the vicinity to remain on premises in his possession. These substances were alleged to be barrels, kegs, and cans of water full of mosquitoes and mosquito larvae, excreta deposited on the surface of the soil and not protected from flies and other germ carriers, rubble and rubbish in which flies and rodents could harbor and breed and become germ carriers, and very high, thick weeds over most of the premises. From a conviction and fine in the lower court the appellant appealed to the Court of Criminal Appeals of Texas.

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One of the appellant's complaints was that the State did not show that the health of any person living in the vicinity was injuriously affected by the things found on appellant's premises. Concerning this the appellate court did not think that the statute intended to convey such a meaning. The law carried with it a preventive idea primarily and should be a safeguard to the community's health rather than a punishment for having caused the spread of disease. "The statute should be construed to mean matters calculated to be injurious to health, and it would not be expected of the State to show that a mosquito bred in one of these barrels had bitten a person in such vicinity and infected such person with matters injurious to his health." Also the court was of the view that the statute set forth two wavs in which it could be violated, one being by carrying on a trade, business, or occupation, and the other by suffering premises under one's control to contain certain substances, either class being injurious to public health. In affirming the judgment of the lower court the appellate court said that it thought that it was fairly clear that the condition of the appellant's property reasonably endangered and threatened the health of the public, that the legislature had the power to declare such matters to be those to be regulated by law as was done in Article 695 of the Penal Code, and that such statute did not offend against the constitution or the appellant's inherent rights.

# DEATHS DURING WEEK ENDED FEBRUARY 24, 1945

[From the Weekly Mortality Index, issued by the Bureau of the Census, Department of Commerce]

	Week ended February 24, 1945	Correspond- ing week, 1944
Data for 93 large cities of the United States:  Total deaths.  Average for 3 prior years.  Total deaths, first 8 weeks of year.  Deaths, under 1 year of age.  Average for 3 prior years.  Deaths under 1 year of age, first 8 weeks of year.  Deaths under 1 year of age, first 8 weeks of year.  Data from industrial insurance companies:  Policies in force.  Number of death claims.  Death claims per 1,000 policies, first 8 weeks of year, annual rate.  Death claims per 1,000 policies, first 8 weeks of year, annual rate.	9, 351 9, 811 78, 392 631 5, 063 67, 020, 558 11, 945 9, 3	9, 694 84, 277 624 5, 117 66, 316, 976 10, 865 8, 6

# PREVALENCE OF DISEASE

No health department, State or local, can effectively prevent or control disease without knowledge of when, where, and under what conditions cases are occurring

# UNITED STATES

# REPORTS FROM STATES FOR WEEK ENDED MARCH 3, 1945 Summary

The current incidence of meningococcus meningitis, 267 cases for the week, as compared with 290 last week, is only about half that for either of the past two years. Of the current total, 114 cases occurred in the 5 States reporting more than 13 cases each, as follows (last week's figures in parentheses): New York 34 (27), Pennsylvania 19 (25), Illinois 20 (28), Texas 23 (25), California 18 (25). The total for the year to date is 2,254, as compared with 5,073 for the same period last year, 3,515 in 1943, and a 5-year (1940-44) median of 573 for the same period.

Of the current total of 26 cases of poliomyelitis, the same as for last week, no State reported more than 3 cases. The corresponding 5-year median is 18. The cumulative total, 341 cases, is more than reported

for the corresponding period of any year since 1928.

The incidence of scarlet fever, 6,414 cases for the current week, as compared with 5,964 last week, and a 5-year median of 4,357, is higher than for any corresponding week since 1937 with the exception of 1944, when 6,985 cases were reported for the same week. The cumulative figure, 48,336, is more than for the corresponding period of any of the past 5 years, and approximately 40 percent above the 5-year median.

Certain other diseases with cumulative figures for the first 9 weeks of the year considerably above those for the corresponding period last year (last year's figures in parentheses) are as follows: Diphtheria 2,882 (2,282), dysentery (all forms) 6,588 (2,666), tularemia 198 (92),

typhus fever 511 (385), undulant fever 760 (358).

The incidence of both smallpox and typhoid fever continues low. A new minimum has been established for smallpox, with only 85 cases reported to date, as compared with 124 last year, a 5-year median of 245, and 640 cases for the corresponding period in 1940. The cumulative total for typhoid fever (525 cases) is below that for the corresponding period of any prior year except 1943, when 465 were reported. The 5-year median is 670.

One case of psittacosis was reported during the week in Cuyahoga

County, Ohio.

A total of 9,884 deaths was recorded for the week in 93 large cities of the United States, as compared with 9,351 last week, 9,852 for the corresponding week last year, and a 3-year (1942–44) average of 9,688. The total to date is 88,276, as compared with 94,124 for the same period last year.

(330)

Telegraphic morbidity reports from State health officers for the week ended March 3, 1945, and comparison with corresponding week of 1944 and 5-year median

In these tables a zero indicates a definite report, while leaders imply that, although none was reported, cases may have occurred.

	D	iphthe	eria		Influen	za		Measle	18	Meni	ngitis, i	menin Is
ivision and State	w	eek ed—	Me-		eek led—	Me-		eek ed—	Me-		eek ed—	Me-
	Mar. 3, 1945	Mar. 4, 1944	dian 1940- 44	Mar. 3, 1945	Mar. 4, 1944	dian 1940- 44	Mar. 3, 1945	Mar. 4, 1944	dian 1940- 44	Mar. 3, 1945	Mar. 4, 1944	dian 1940- 44
NEW ENGLAND												
Maine New Hampshire Vermont Massachusetts Rhode Island Connecticut	0 0 0 4 0 1	0	0 0 3 0	1 	1 4 16	4	20 104 8 94		23 47 597 169	1 0 8 4	5 1 1 28 11 11	0 0 11 1 4
MIDDLE ATLANTIC New York New Jersey Pennsylvania	11 1 11	13 3 8	6	1 3 3 2	' 10 6 5	17	90 47 116	2, 401 1, 496 976	2, 040 1, 299 976	34 13 19	65 26 32	5 5 12
EAST NORTH CENTRAL Ohio Indians Illinois Michigan 3 Wisconsin	8 8 2 10 0	8 12 13 3 5	8 11 16 3 1	5 40 8 2 59	38 44 42 2 96	44	35 12 83 22 33	7, 295 320 1, 157 1, 396 1, 683	320 835	11 4 20 5 5	27 12 46 22 10	3 1 2 1 0
WEST NORTH CENTRAL Minnesota Iowa	7 2 4 0 1 2 8	4 19 4 1 1 6 7	4 3 4 1 1 3 5	1 4 40 1	1 10 10 211 7 9	3 10 10 44 1 7	4 16 9 1 35 18 13	1, 623 348 426 195 68 56 781	253 309 255 53 21 56 429	3 1 7 1 0 0 2	3 1 26 5 0 2 4	1 0 1 0 0 0
Delaware Maryland District of Columbia. Virginia. West Virginia. North Carolina. South Carolina. Georgia. Florida.	0 5 0 6 1 12 2 4 3	0 10 0 4 2 11 1 5	0 5 2 10 4 12 3 8	12 1 616 16 984 21 2	29 2 659 43 19 657 115 8	29 3 659 52 52 945 261 8	20 59 8 45 28 42 24 27 47	9 845 136 953 1, 377 1, 731 435 565 306	9 115 67 338 229 490 192 200 165	0 5 1 10 1 8 4 5	3 14 2 20 3 13 11 9	0 3 2 3 1 4 5 3
EAST SOUTH CENTRAL Kentucky Tennessee Alabama Mississippi <sup>3</sup>	5 3 8 12	2 5 3 4	5 4 3 4	35 43 198	207 108 232	107 187 233	19 83 10	205 314 480	205 185 224	8 7 2 3	11 29 17 7	6 2 1 0
WEST SOUTH CENTRAL Arkansas Louisiana Oklahoma Texas	10 2 6 41	0 4 12 32	3 4 6 35	155 2 233 1,415	174 214 300 1, 359	236 133 209 1,658	27 15 23 431	126 381 107 1,016	126 85 34 620	8 1 1 23	1 12 9 12	0 3 0 4
MOUNTAIN  Montana Idaho Wyoming. Colorado. New Mexico* Arizona. Utah †	1 4 0 8 2 1 0 0	2 0 1 4 0 1 0 0	0 0 7 2 1 1	35 8 66 1 3	38 9 67 2 184 139 22	25 14 64 2 184 20	6 7 8 14 3 3 124 7	186 114 73 404 47 376 52 5	90 96 77 207 47 111 93 2	0 0 1 0 2 3 1	0 0 1 4 0 1 0	0 0 1 1 1 0 0 0
PACIFIC Washington Oregon Californis Total	5 2 30 253	1 3 23 252	1 1 20 270	2 13 40 4, 141	3 55 87 5, 249	3 30 101 5, 457	84 42 843 2, 813	151 76 1, 712 34, 238	151 391 741 18, 496	3 1 18 267	5 3 44 586	1 0 6 70
weeks	2, 882	2, 282							114, 932			573

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New York City only.

Period ended earlier than Saturday.

<sup>630132-45-2</sup> 

Telegraphic morbidity reports from State health officers for the week ended March S, 1945, and comparison with corresponding week of 1944 and 5-year median—Con.

	Pol	liomye	litis	80	earlet fe	ver	8	mallpo	X	Typh	oid and hoid fe	d para ver 1
Division and State	Wend	eek ed—	Me-	W	eek ed—	Me-	wende	eek ed—	Me-	Wende	eek ed—	Me-
	Mar. 3, 1945	Mar. 4, 1944	dian 1940- 44	Mar. 3, 1945	Mar. 4, 1944	dian 1940–44	Mar. 3, 1945	Mar. 4, 1944	dian 1940- 44	Mar. 3, 1945	Mar. 4, 1944	dian 1940- 44
NEW ENGLAND  Maine	0 0 0 0 0	000000000000000000000000000000000000000	0 0 0 0 0	6 11 322 47	37 11 13 390 17 85	6 8 7 272 17 61	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0	1 0 0 2 1 0	0 0 0 0 0 0 2	
MIDDLE ATLANTIC New York New Jersey Pennsylvania	1 1 0	1 0 2	1 0 0	719 175 651	548 240 594	548 240 389	0 0	0 0	0 0	5 0 9	0 1 7	1
EAST NORTH CENTRAL Ohio	1 0 2 0 0	1 1 0 0 0	1 0 0 0	498 188 453 259 280	736 205 470 250 360	399 168 470 261 176	0 1 0 0	0 1 0 0 0	0 1 4 0 0	2 1 4 1 1	0 11 1 0 0	3 1 2 1 0
WEST NORTH CENTRAL Minnesota Iowa Missouri North Dakota South Dakota Kansas Kansas	1 2 2 0 0 0	0 0 0 0 0 1	000000000000000000000000000000000000000	96 65 173 19 11 93 120	261 171 117 38 35 96 126	118 65 101 17 21 57 83	0 1 0 0 1 1 1 2	0 5 0 0 0	1 1 2 0 0 0	0 0 1 0 0	0 1 1 1 0 0	0 1 1 0 0 0
BOUTH ATLANTIC Delaware Maryland  District of Columbia Virginia West Virginia North Carolina South Carolina Georgia Florida	0 0 0 2 0 3 0 0	0 0 0 0 0 0 0	0 0 0 0 0 1 0 0	18 284 61 174 58 90 9	6 230 232 63 100 37 11 17	7 91 26 35 53 45 8 17	0 0 0 0 0 0 0 1 0	000000000000000000000000000000000000000	0 0 0 0 0 0 0 0 0	0 0 0 1 0 3 1 6	0 2 0 0 1 0 0	0 2 0 1 0 0 0 0
EAST SOUTH CENTRAL Kentucky	2 0 0	0 1 0 0	0 1 1 1 1	89 67 20 54	73 65 22 4	88 73 18	0 0	0	0 0 0	1 0 0	2 2 0 0	2 3 1 0
WEST SOUTH CENTRAL Arkansas Louisiana Oklahoma	2 1 0 2	0 0 0 1	0 0 0 1	26 15 27 136	6 4 50 82	6 11 27 67	0	0 0 0 4	0 0 1	1 0 0 3	1 0 0 8	1 1 0 5
MOUNTAIN  Montana daho  Colorado  New Mexico* Arizona  Utah  Newada	1 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	43 57 8 92 30 25 38 5	49 77 14 70 11 13 156 5	33 6 14 53 10 13 24 0	0 1 0 0 0 0 0 0 1	0 0 0 0 0 1 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 1 1 1 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 2 0 1 0 0
PACIFIC Washington Oregon California	0 0 3	1 1 3	0 0 2	120 53 452	278 143 350	64 14 144	0 0	0 0	0 0	0 0 0	0 1 3	1 1 2
Total	341	224	247	6, 425 48, 347	6, 985	4, 357	86	11	21 =	525	700	56 670

<sup>\*</sup>See footnote on p. 331.

Period ended earlier than Saturday.
 Including paratyphoid fever reported separately as follows: Maine, 1; Massachusetts, 2; Rhode Island 1
 New York, 1; Illinois, 1; Michigan, 1; Georgia, 3; Kentucky, 1.

Telegraphic morbidity reports from State health officers for the week ended March 3, 1945, and comparison with corresponding week of 1944 and 5-year median—Con.

	Who	ooping	ough			Week	ended	March	a 3, 194	5	
Division and State	w	eek ed-	Me-	I	ysent	ery	En- ceph-	Rocky Mt.		Ту-	Un-
Division and State	Mar. 3, 1945	M ar. 4, 1944	dian 1940- 44	Amebie	Bacillary	Un- speci- fied	alitis, infec- tious	spot- ted fever	Tula- remia	phus fever	du- lant fever
NEW ENGLAND											
Maineew Hampshireermont	51 0 43 175 33 37	17 1 35 63 15 39	28 12 35 173 19 45	0 0 0	0 0 0 1 2 0	0 0 0 0 0 0	0 0 0 0	0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	000000000000000000000000000000000000000
MIDDLE ATLANTIC								28		-	
New York New Jersey Pennsylvania	234 103 171	127 54 131	397 107 341	3 0 0	23 0 0	0 0	0 0	0	0	0	8 1 11
BAST NORTH CENTRAL		1			-						**
Ohio ndiana Ilinois Vichigan <sup>1</sup> Wisconsin	135 13 85 49 63	179 29 53 99 68	177 33 110 153 130	0 0 2 0 0	0 0 0 1 0	0 0 0	0 0 0 0	0 0 0	0 0 2 0 0	0 0 0	1 0 3 1 7
WEST NORTH CENTRAL	90		40								
Minnesota. Owa. Missouri North Dakota. Outh Dakota. Sebraska. Cansas	39 7 1 4 2 44	27 8 12 8 4 30 34	18 12 14 1 6 58	0 0 0 0 0	0 0 0 0 0 0	0 0 1 0 0 0	0 0 0 1 0 1 1	0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0	2 1 0 0 1 0 4
SOUTH ATLANTIC											
pelaware. daryland   listrict of Columbia. lirginia. Vest Virginia. orth Carolina. outh Carolina. elorgia. lorida.	0 38 2 36 62 116 54 20 29	0 28 3 55 25 196 61 21 32	8 84 11 55 42 176 61 37 21	1 0 0 0 0 0 0 2 2	0 0 0 0 0 0 3 2	246 0 0 0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 1 0 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 1 0 4 5	000000000000000000000000000000000000000
EAST SOUTH CENTRAL											
entuckyennesseelabama	19 13	51 24 23	52 31 12	0 0	0 0	0 0 0	0 2 0 0	0	1 0 1	7 0	0 1 2 3
WEST SOUTH CENTRAL											
rkansas ouisiana oklahoma exas	16 1 11 215	15 0 5 130	16 6 9 167	1 1 0 6	1 0 3 295	0 0	0 0 0 2	0 0	0 0	0 0 0 11	0 1 0 9
MOUNTAIN											
fontana	1 0 5 30 17 23 17 0	3 16 3 25 1 42 15 0	10 9 2 28 19 28 54 0	0 0 0 0 0 0 0 0	0 0 0 0 1 0 0 0	0 0 0 0 0 13 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	0 0 7 0 0 1
ashington regon alifornia	38 4 284	55 19 72	55 19 272	0 0 2	44 0 6	0 0	0 0	0 0	0 0	0 0 3	1 0 12
	2, 393	1, 953	3, 907	22	385	265	7	0	9	32	85
ame week 1944	1, 953 3, 265 0, 735 6, 418 9, 153		34, 878	216 1	140 178 , 066 , 873 , 445	89 47 ,281 577 405	19 15 57 91 82	0 40 4 2 44	198 92	31 4 31 511 385 385	45 31 760 358 273

<sup>\*</sup>See footnote on p. 331.

<sup>&</sup>lt;sup>2</sup> Period ended earlier than Saturday.

<sup>4 5-</sup>year median, 1940-44.

Psittacosis: Ohio, Cuyahoga County, 1 case.

# NOTIFIABLE DISEASES, YEAR 1944

shifts and the presence of large military populations in certain States, the figures for some States are not comparable with those for prior years, especially for certain diseases. Each State health, officer has been requested to include in the monthly report for his State all dis-The lists of diseases required to be reported are not the same in some States, of diseases that are not required by law or regulation to be reported, and the figures are included although manifestly incomplete. There are also variations among the States in the degree of completeness of reporting of cases of the reportable diseases. The figures in the following table are the totals of the monthly morbidity reports received from the State health authorities for the These reports are preliminary and the figures are therefore more or less incomplete. In most instances they include cases to both civilian and military populations. The comparisons made are with similar preliminary reports; but owing to population In some instances cases are reported, As compared with the deaths, incomplete case reports are obvious for such diseases as malaria, pellagra, pneumonia, and tuberculosis, while in many States other diseases, such as puerperal septicemia and Vincent's infection are not reportable. eases that are required by law or regulation to be reported in the State. The lists of diseases refor each State. Only 12 of the common communicable diseases are notifiable in all the States.

In spite of these known deficiencies, however, these monthly reports, which are published quarterly and annually in consolidated form, have proved of value in presenting early information regarding the reported incidence of a large group of diseases and in indicating a trend by providing a comparison with similar preliminary figures for prior years. To some extent they also give a picture of the geographic prevalence of certain diseases, as the States are arranged by geographic location.

Leaders are used in the table to indicate that no case of the disease was reported.

3	34			
distance of the latest of the	Pneu- monia, all forms	917 3, 041 3, 041 2, 855	19, 842 3, 939 4, 201	4, 014 8, 560 2, 797 1, 682
	Pella- gra		4 0	
	Oph- thal- mia neona-	192	38 4 92	469 810 30
	Mumps	254 11, 283 11, 018 2, 261	3 4, 870 13, 508 16, 867	1, 656 6, 268 7, 415 9, 775
	•Men- ingitis, menin- gococ- cus	102 29 111 290 290	1,869 661 1,146	957 316 996 851 291
	*Mea-	6, 558 2, 590 19, 848 6, 878 9, 727	45, 455 29, 368 26, 675	42, 425 5, 567 19, 451 26, 719 48, 050
r 1944	Ma- laria	2 266 266 60	\$31 831 2	2458 2458 2458 2458
the yea	Influ- enza	480 44 507 1,118 887	136 478 245	10, 739 1, 035 1, 431 7, 824
rts for	Hook- worm disease	1	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	8-
morbidity reports for the year 1944	Ger- man mea- sles	264 127 373 1,947 98 961	3,092	2, 715 2, 715 1, 652 1, 296
morbid	En- cepha- litis, infec- tious	42 21 11	282	8-201
State	Dysen- tery, unde- fined			32
monthly	Dysen- tery, bacil- lary	124.11.22	1,230	41 130 207
Consolidated	Dysen- tery, amebic	63 69	32.50	12888
Consol	•Diph-	3,850.22	330 139 446	346 398 324 425 110
	•Con- juncti- vitis i	321	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	40 828
	Chick- enpox	2, 938 397 19, 484 1, 470 6, 812	88,88 11,489,13	14, 425 3, 783 16, 498 22, 529 31, 196
	An- thrax		24E	1
	Division and State	MEW ENGLAND Maine Maine New Hampshire Vermont Massachusetts Rhode Island Connection MDDLE ATLANTIC	New York New Jersey Pennsylvania RAST NORTH CENTRAL	Obio Indiana Illinois Michigan Wisconsin

Whole wond or washing a

342 629 1, 648 1, 045 1, 059 1, 059	31 3,857 3,800 476 469 5,086 1,108 1,018	1, 222 2, 858 3, 973 15, 569	2, 132 1, 985 1, 458 13, 276	372 1,704 1,863 1,803 130	1, 957 1, 093 4, 109	129, 021 150, 222 141, 939	10.
	31 601 37 5	2,527	1,045	71	0 0 8 0 0 0 0 0 0 0 0 0 0 0 0	4, 483	
8	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	8 8	100	61	1 1 4 0 0 0 0 0 0 0 0 0 0 0 0	1, 649 1, 627 1, 627	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
1,868 959 105 746 4,462	3, 121 587 1, 756 604 3, 026 1, 678	1, 631 1, 606 7, 126	621 1,092 463 4,623	1, 717 3, 805 3, 861 2, 984 2, 984	4, 973 1, 910 34, 849	175, 643 205, 792 198, 264	2, 902
232 108 671 43 21 21 165	222 889 167 167 224 224 224	297 538 337 266	110 109 636	138688821	239 127 1, 345	16,094 17,974 1,984	67
21, 926 5, 985 3, 966 3, 654 1, 621 10, 960	375 14, 318 13, 163 17, 163 19, 905 26, 654 8, 157 6, 176 5, 210	2, 712 5, 866 8, 423 15, 431	4, 231 4, 268 45, 603	3, 798 1, 023 1, 875 6, 754 1, 884 1, 174 1, 174	5, 626 3, 352 70, 549	623, 709 612, 068 546, 023	8, 972
241 223 5 5 5 88 223	9,899 9,899 9,899 9,899	22,882 838 838	1, 452 1, 486 1, 461 7, 498	28 11 13 15 15 15 15 15	1,693	55, 693 53, 575 67, 225	541
7, 733 1, 383 1, 383 1, 901	738 1, 310 28, 836 1, 294 38, 060 7, 487 7, 487	28, 921 8, 154 21, 132 67, 582	18, 453 20, 686 11, 226 108, 316	6, 105 1, 770 4, 191 5, 675 9, 334	3,020 11,750	476, 275 452, 101 423, 072	1,149
	8886 3, 354 6, 545	3 4, 917	370 10	5 0 8 0 8 0 8 0 8 0 8 0 8 0 0 0 0 0 0 0		16, 104 12, 796 26, 093	63
104	1,066	382	134	666 431 319 77 237 379 618	1,925	38, 339 321, 718 155, 545	39
20014 7	10 mm = 8	<b>₹</b> 22	4-18	04440Iuu	845	967 749 858	60
10 9	38 7,149 8	153	13	1,457	0	9, 421 7, 538 1, 484	8
262	\$200 \$300 \$300 \$300 \$300 \$300 \$300 \$300	11,660	841 209 174 20,052	25 108 14 1	6 491	37, 525 30, 872 24, 056	117
124	~224~4~4% <b>2</b>	1,235 1,235	49 67 18 856	D 20242-	120	3, 220 3, 429 2, 993	92
513 203 161 161 172 172	222 223 165 1,647 276 276	322 823 828 828	327 416 328 2, 031	102 122 253 175 100 100	308 177 1, 318	15, 323 14, 943 16, 421	<b>4</b> 3
40 16	88	64	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	151 40 122 2	8 8	1, 492	8
6, 269 2, 151 1, 315 1, 315 1, 112 4, 446	4,1,8,1,8,2, 1,2,2,2,3,6,8,4,9,8,4,9,8,8,2,2,8,8,4,8,8,4,8,8,4,8,8,4,8,8,4,8,8,4,8,8,4,8,8,4,8,8,4,8,8,8,4,8	1, 432 1, 532 1, 002 6, 050	928 516 793 11, 427	2, 639 4, 764 717 717 5, 764 3, 863 5, 863	7, 955 2, 305 36, 160	317, 510 301, 423 299, 770	1,454
		1	- 6			39 75	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
weer north central. Minnesota lowa. Missouri North Dakota South Dakota Kansaka.	SOUTH ATLANTIC Delaware Maryland District of Columbia Virginia West Virginia Worth Carolina Georgia	Kentucky Tennessee Alabama	Arkansas Louisiana Oklahoma	MOUNTAIN Montana Glaho, Wyoming Colorado New Mexico New Mexico Utah	PACITIC Washington Oregon California	Total Year 1943 Median, 1939-43	Alaska Hawaii Territory

Wisconsin. | 31,196 | 110 | 28 | 111 | 1,290 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 1

For footnotes, see p. 338.

Consolidated monthly State morbidity reports for the year 1944—Continued

Whoop- ing cough	889 1, 218 4, 059 672 2, 091	8, 215 3, 079 5, 049	5, 535 769 4, 050 4, 344	1, 464 983 918 405 367 560 1, 665	2, 256 174 1, 226 1, 226 6, 356 3, 521 739
Vin- cent's infec- tion	121 18		332 367 144	26 77 77 158	35 157 460
Undu- lant fever	27 16 16 16 16 16	878	22,882	326 395 39 25 175	25 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Typhus	64   60	21 88	1 1	8 1	237 237 1,143 496
Para- ty- phoid fever	44 gao	11	35 E2 3 E	P04-	14 28 862 852
*Ty- phoid and para- ty- phoid fever	38 38 38	230 230	196 320 111 22 22	30 112 122 13 13 61	142 133 142 236 134
Tula- remia		8-9	37.0	101 101	55 15 15 15
Tuber- culosis, respir- atory	586 2, 930 1, 320	12, 561	6, 568 3, 253 7, 471	784 260 16 651	3, 133 2, 016 3, 403 1, 767 2, 094 819
Tuber- culósis, all forms	96 3, 131 1, 376	13, 501 3, 491 5, 802	6, 780 3, 355 8, 115 6, 419 2, 673	2, 518 2, 874 2, 416 371 195 704	1, 9805 1, 9805 1, 9805 1, 9805 1, 1, 9805 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1
Trichi- nosis	25 23	122 52 5	29-64	1	1-1 10-1
Tra-	1 9	-64	170 170 4 6	2 44 45	
Teta- nus	8 1-284	250	8330	4 61-1 21	4 6 55
Small-	3	0 9 0 0 0 0 0 0 0 0 0 0 0 0 0	1203333	1802103	H0401-
Septic sore throat	42 E E E	736	22288	£=83- <u>2</u>	1,402 283 280 280 111
Scar- let fever	1, 599 436 400 12, 028 2, 658	16, 387 6, 155 15, 517	15,006 4,856 11,737 8,971 9,250	5, 117 3, 550 1, 044 1, 903 3, 539	2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2
Rocky Moun- tain spotted fever		113	13	10 mm	24 08 18 8 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0
Rabies in man		04 m 40	-68-		
Rabies in ani- mals		300	366	.22 g	73 148 171 171
•Polfo- myeli- tis	284 <b>2</b> 25	6, 202 544 1, 455	1, 188 334 556 556 281	204 187 42 42 42 113	436 222 222 222 222 222 222 222 222 222 2
Division and State	Meine. Maine. New Hampshire. Massachusetts. Rhode Island. Connecticut.	New York New Jersey Pennsylvania	Ohio Indiana Illinois Michigan	WEST NORTH CENTRAL Minnesota Iowa Missouri North Dakota South Dakota Nobraska Kansas	SOUTH ATLANTIC Delaware Maryland District of Columbia. Virginia West Virginia North Carolina South Carolina Florida

2, 673 1, 294 1, 072 12, 361	930 125 407 9, 436	804 206 206 1, 286 1, 582 1, 582	1,395	100, 285 191, 112 191, 112	317
520	6	83 112	101	2, 614 3, 101 2, 167	18
5228	57 46 470	52081254	335	4, 286 3, 639 3, 408	0
882 164	17 283 1,740	-     -	1 45	11 5, 353 4, 517 2, 960	163
115	17 42	- 200000-	642	741	101
223 1153 136 136	243 110 589	23 4 25 5 2 2 2 2 8 2 2 8 2 2 8 2 2 8 2 2 8 2 2 8 2 2 8 2 2 8 2 2 8 2 2 8 2 2 8 2 2 8 2 2 8 2 2 8 2 2 8 2 2 8 2 2 8 2 2 8 2 2 2 8 2	307	5, 482 8, 482 8, 485	52 18 2
52 12 5	58.88	F-124 80	-4	733 887 1, 482	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
2, 929	1, 433	128 129 18 18 1,466	1,634	70, 462 67, 824 56, 406	312 834 11 51
3, 035 1, 839 1, 839	1, 496 1, 793 2, 509 10, 399	460 134 71 1, 212 1, 502 1, 079 91	2, 132 751 10, 195	126, 348 118, 307 103, 348	330 908 11 51
-	1		9	357	
3-0	506 145 180	488 489	### T	2,545 2,778 7,78	9
3.8	37	1	2 9	436 426 426	18
5004	8712	28 108 67	128	384 746 1, 368	7
129	253 128 856 856	588885788	123	7,356 7,787 9,914	1288
2, 381 828 545	3, 686 3, 686	1, 390 1, 571 2, 160 550 84 84	7,019 3,229 12,824	191, 220 142, 274 142, 274	13
2500	C+ 00	10 10000	-100	448 431 431	
	9000	1	8	3382	
161	202	18 31	909	2,2,4 462 492	
736 103 128	238	82822827	198 234 488	19,053 12,429 8,947	800
EAST SOUTH CENTRAL Kentucky Tennessee Alabame Mississippi	Arkansas. Louisiana. Oklahoma. Texas. MOUNTAIN	M ontana. Idaho. W yoming. Colorado. Arizona. Utah. Nevada.	Washington. Oregon. California	Total Year 1943 Median, 1939-43	Alaska. Hawaii Territory. Panama Canal Zone 19.

See notes on p. 338.

\*Diseases marked with an asterisk (\*) are reportable by law or regulation in all the States, including the District of Columbia. Typhoid fever is reportable in all the States, paratyphoid fever in all except 6 States. Syphilis is reportable in all the States and the District of Columbia but is not included in the table.

Includes cases of kerato- and suppurative conjunctivitis and of pink eye. For 6 months only.

ncludes cases in which the infection was contracted outside the State. New York City only.

For 5 months only.

Exclusive of 10 recurrent cases.

Exclusive of 159 recurrent cases.

§ Lobar pneumonia only.
<sup>19</sup> Including the cities of Colon and Panama.

11 In the Canal Zone only.

Includes 1 case of tsutsugamushi fever.

11 Includes cases originating outside the State.

The following list includes certain rare conditions, diseases of restricted geographical distribution and those reportable in or reported by only a few States: Massachusetts 1, Connecticut 1, Pennsylvania 1, Illinois 6, Michigan 5, Minneson 25, Iowa 1, Missouri 1, South Dakota 1, Kansas 2, Maryland 1, Tennessee, 1, Montana 1.

Botulism: New York 4, Illincis 1, Nevada 2, Washington 6, California 8.
Coccidiodomycosis: Kansas 1, New Marcio 1, Arizona 43, California 31, Cacidiodidamycosis: Kansas 1, Lontisiana 3, Texas 41, Hawaii Territory 285.
Loutisiana 3, Texas 41, Hawaii Territory 285.
Diarrhea and entertiis: Rhode Island 6 (diarrhea only). New Jersey 55 (diarrhea only), Ohio 637, Indiana 3 (diarrhea only), Illinois 5 (diarrhea only), Minheigan 55 (diarrhea only), Minheigan 55 (diarrhea only), Minheigan 55 (diarrhea only), Minheigan 50 (diarrhea only), Nouth Carolina 10,235 (diarrhea only), Florida 28 (diarrhea only), Wyoming 1 (diarrhea only), Colorado 1 New Maxico 253, Nevada 33 (diarrhea only), Washington 133, California 48 (diarrhea only), Washington 134, California 48 (diarrhea only), Washington 134, California 48 (diarrhea only), California 48 (diarrhe

rhea only). Dog bite: Illinois 11,164, Michigan 7,743, Arkansas 370. Favus: Michigan 1.

Food poisoning: Maine 5, Ohio 1, Indiana 14, Illinois 45, Louisiana 12, New Mexico 10, Nevada 6, Washington 3, California 651.

Granuloma inguinale: Missouri 44, Florida 207, Tennessee 33, Mississippi 653, Louisian ana 190, Artzona 10, Washington 47. Granuloma, unspecified: Ohio 15.

Impetigo contagiosa: Obio 1, Indiana 21, Illinois 87, Michigan 1,379, fowa 9, Missouri 6, North Dakon 32, South Dakota 3, Kanssa 97, Maryland 10, Montana 18, Wom-ing 13, Colorado 8, Newada 12, Washington 174, Oregon 331, Alaska 12, Hawali

Territory 135.

Jandice (Including hepatitis): Indiana 13. Illinois 34, Minnesota 2, Kansas 4, MaryJandice (Including hepatitis): Indiana 35, Idaho 3, Wyoming 8, Arizona 4, Utah 18,
Nevada 1, Washington 47, California 350, Alaska 95, Hawaii Territory 6.
Lead poisoning: Minnesota 7, New Mexico 1.
Leprosy: New York 3, New Jersey 1, Ohio 1, Illinois 1, Maryland 1, Florida 3, Louisiana 9, Texas 5, Colorado 1, Nevada 1, California 9, Hawaii Territory 27, Panama

Lymphocytic choriomeningitis: Illinois 2, Tennessee 3. Lymphogranuloma venereum: Missouri 51, Florida 248, Tennessee 72, Louisiana 165, Canal Zone 1.

Arizona 27, Utah 3, Nevada 4. ague (human): California 1 (laboratory infection), Hawaii Territory 5 (all fatal,

including I pneumonic).

Psitracois: Pointnaylvania 2, Maryland 1, Utah 1, Washington 1, California 1.

Puerporal septitemia: Obito 1, Georgia 2, Florida 2, Tennessee 4, Mississippi 244,

Louisiana 2, New Mexico 6, Nevada 4,

Ratibite fever: Kansas 3.

Relapsing fever: Kansas 1.

Relapsing fever: Kansas 1.

Relapsing fever: Kansas 1.

Relapsing fever: Kansas 1.

Relapsing fever: Range 1.

Rissouri 6.

Rissouri 6.

Rissouri 6.

Rissouri 6.

Rolapsing 1.

Relapsing 1.

Rissouri 2.

Rortt Dakota 103.

Ransas 85.

Raryland 1.

Rott Dakota 104.

Ryoming 41.

Silicosis: Ohio 3, Indiana 14, Montana 3, Idaho 2, New Mexico 1, Utah 2. Well's disease: Massachusetts 2, Ohio 1, Michigan 84, Maryland 2, Utah 1, Hawali

Perritory 18.

# WEEKLY REPORTS FROM CITIES

City reports for week ended February 24, 1945

This table lists the reports from 89 cities of more than 10,000 population distributed throughout the United States, and represents a cross section of the current urban incidence of the diseases included in the table.

		infec-	Influ	enza		meningo- ases	hs	806	23		para-	onses
	Diphtheria cases	Encephalitis, tious, cases	Cases	Deaths	Measles cases	Meningitis, men coccus, cases	Pneumonia desths	Poliomyelitis cases	Scarlet fever cases	Smallpox cases	Typhoid and typhoid fever	Whooping cough
NEW ENGLAND												
Maine:								0	1	0	0	
Portland New Hampshire:	0	0		0	1	1	4					
Concord	0	0		0	4	0	0	0	6	0	0	0
Vermont: Barre	0	0		0	2	0	1	0	0	0	0	
Massachusetts:				0	om		10	0	63	0	1	3
Boston Fall River	0	0		0	27	2 0	13	0	10	0	ô	
Springfield Worchester	0	0		0	8	0	1	0	13	0	0	
Worchester	0	0		0	2	0	9	0	6	0	0	
Rhode Island: Providence	0	0		1	1	0	4	0	7	0	1	1
Connecticut:												
Bridgeport Hartford	0	0	*****	0	0 44	0	1 0	0	30	0	0	
New Haven	ő	ő		0	1	ĭ	3	Õ	5	Ö	Ö	1
MIDDLE ATLANTIC												
New York:												
Buffelo	0	0		1	8	4	7	0	5	0	0	
New York	10	0	5	1 0	5	16	78	0	251	0	3 0	9
New York Rochester Syracuse	ő	ő		0	0	0	1	0	5	0	0	3
New Jersey:						0	3	0	2		0	-
Camden Newark	0	0	1	0	1	2	9	0	15	0	0	1
Trenton	ŏ	0		0	1	0	1	0	9	0	0	(
Pennsylvania:	0		6	4	45	5	30	0	114	0	3	3
Philadelphia Pittsburgh Reading	0	0	1	2 0	2	7 0	21	0	25	0	0	
EAST NORTH CENTRAL												
Ohio:												
Cincinnati	0	0	1	0	0	1	14	0	22 75	0	0	13
	2	0	1	0	0	0	7 4	0	6	ő	1 0	4
Indiana:												
Fort Wayne Indianapolis South Bend	5	0	*****	0	1 3	0	12	0	8 39	0	0	
South Bend	1	0		0	3	1	0	0	6	0	0	(
TUTTE LIMITE	0	0		0	0	0	3	0	4	0	0	(
Illinois: Chicago	0	0		1	34	15	30	0	120	0	0	32
Springfield	0	0		0	2	0	4	0	14	0	0	1
Michigan: Detroit	8	0	2	2	7	9	19	0	94	0	0	10
	0	0		0	0	0	4	0	5	0	0	
Grand Rapids	0	0		0	0	0	0	0	14	0	0	(
Wisconsin: Kenosha	0	0		0	0	0	0	0	2	0	0	1
Milwaukee	0	0		0	6	0	5	0	75	0	0	2
Racine	0	0		0	1	0	0	0	3	0	0	2
WEST NORTH CENTRAL												
Minnesota:												
Duluth	0	2 0		0	1	0	2	0	3	0	0	0
Minneapolis St. Paul	2	0		0	7	0	6	0	29	0	0	8
St. Paul Missouri:	2	0		0	1	0	4	0	1	0	0	8
	-	-			3	0	10	0	23	0	0	1
Kansas City St. Joseph St. Louis	0	0		0	0	ŏ	0	0	18	0	0 2	Ô

City reports for week ended February 24, 1945-Continued

	_	Infec.	Influ	enza		meningo-	hs	ses	68		para-	h cases
	Diphtheria cases	Encephalitis, tious, cases	Cases	Deaths	Measies cases	Meningitis, men coccus, cases	Pneumonia deaths	Pollomyelitis cases	Scarlet fever cases	Smallpox cases	Typhoid and typhoid fever	Whooping cough cases
WEST NORTH CENTRAL —continued												
North Dakota:												
Fargo Nebraska:	0	0		0	0	0	0	0	0	0	0	
Omaha Kansas:	1	0		0	9	0	5	0	26	0	0	(
TopekaWichita	0	0		0	0	0	3	0	11	0	0	
SOUTH ATLANTIC												
Delaware: Wilmington	0	0		0	0	0	4	0	0	0	0	0
Maryland: BaltimoreCumberland	6	0	1	1	6	4	13	0	131	0	0	23
Frederick	0	0		0	0	0	0	0	7 0	0	0	6
District of Columbia: Washington	1	. 0	1	0	9	4	13	0	77	0	0	(
Virginia: Lynchburg	1	0		0	0	0	1	0	2	0	0	
Richmond Roanoke	0	0	1	0	0	1 0	3 2	0	13	0	0	2
West Virginia: Charleston	0	0		0	0	0	0	0	0	0	0	(
Wheeling	0	ő		0	52	2	2	ő	0	0	0	Č
North Carolina: Raleigh	0	0		0	0	0	2	0	2	0	0	11
Wilmington Winston-Salem	1 2	0		0	1	0	4 2	0	6	0	0	17
South Carolina: Charleston	0	0	22	0	0	0	0	0	2	0	0	1
Georgia: Atlanta	0	0	7	1	1	0	4	0	9	0	0	. (
Brunswick	0	0	1	0	5	0	5 2	0	0	0	0	1
Florida:	1	0	1	0	0	0	1	0	5	0	0	0
Tampa				0		"	1	0				
EAST SOUTH CENTRAL												
Tennessee: Memphis Nashville	0	0	6	2	58	1	15	0	10	0	0	6
Alabama:	0	0		0	1	0	3	0	12	0	0	3
Birmingham	0	0	5	0	0	0	3 5	0	. 0	0	0	4
WEST SOUTH CENTRAL			-									
Arkansas:					0			0	0	0	0	2
Little RockLouisiana:	0	0		0	2	1	0	0		-		
New Orleans	0	0	2	0	11	0	13	0	9	0	0	0
Texas: Dallas	3	0		0	21	2	4	0	7	0	0	2
Galveston	4	0		0	0	0 3	5	0	7	0	0	0
San Antonio	3	0	1	1	0	0	7	0	0	0	0	0
MOUNTAIN												
Montana:	0	0		0	0	0	2	0	2	0	0	0
BillingsGreat Falls	0	0	*****	0	1	0	3	0	3 2	0	0	0
Helensldaho:	0	0	*****	0	0	0	0	0	-	0	0	
Boise Colorado:	0	0		0	0	0	0	0	1	0	0	0
DenverPueblo	7	0	1	0	8	1 0	9	0	6	0	0	16
Utah: Salt Lake City	0	0		0	17	0	2	0	10	0	0	6

# City reports for week ended February 24, 1945-Continued

		Infec-	Influ	enza		meningo-	sq	88	8		pera-	cough
	Diphtheria cases	Encephalitis, i	Cases	Deaths	Measles cases	Meningitis, meni coccus, cases	Pneumonia deaths	Poliomyelitis cases	Scarlet fever cases	Smallpor cases	Typhoid and	Whooping co
PACIFIC												
Washington:												
Seattle	0	0		0	22	3 0	6	0	14	0	0	0 3
Tacoma	0	0		0	6	0	î	0	5	0	0	3
California:			8		-							10
Los Angeles	0 3	0	8	1	28	6 0 2	5	0	57 21	0	0	18
San Francisco	3	ő		0	101	2	9	O	69	Ö	ő	18 8 14
Total	74	3	78	27	605	108	513	3	1, 739	0	13	589
Corresponding week, 1944	65 71		216 603	72 1 49	7, 913 24, 583		503 1 525		2,090 1,603	2 2	6 11	359 867

<sup>1</sup> 3-year average, 1942-44. <sup>2</sup> 5-year median, 1940-44.

Dysentery, amebic.—Cases: New York, 1; Cleveland, 1; Chicago, 1; St. Louis, 1; Houston, 1.

Dysentery, bacillary.—Cases: New York, 1; Charleston, S. C., 6; Los Angeles, 1; San Francisco, 3.

Dysentery, unspecified.—Cases: San Antonio, 1.

Tularemia.—Cases: Buffalo, 1; Springfield, Ill., 1; Atlanta, 1.

Typhus fever, endemic.—Cases: Atlanta, 1; Savannah, 3; Tampa, 1; Nashville, 2; Birmingham, 1; Galveston, 1; Houston, 1; San Antonio, 6.

Rates (annual basis) per 100,000 population, by geographic groups, for the 89 cities in the preceding table (estimated population, 1943, 34,379,500)

	case	infec-	Influ	ienza	ates	enin-	death	case	case	rates	para-	cough
	Diphtheria rates	Encephalitis, infectious, case rates	Case rates	Death rates	Measles case rates	Meningitis, meningococcus, case	Pneumonia rates	Poliomyelitis rates	Scarlet fever	Smallpox case rates	Typhoid and typhoid f	Whooping case rates
New England Middle Atlantic East North Central West North Central South Atlantic	5. 2 4. 6 9. 7 13. 9 21. 2	0.0 0.5 0.0 4.0 0.0	0.0 6.0 1.8 9.9 53.9	2.6 4.2 2.4 6.0 4.9	238 32 38 48 129	10. 5 16. 2 19. 5 11. 9 19. 6	96. 7 73. 1 62. 6 105. 4 96. 4	0.0 0.5 0.0 2.0 0.0	371 203 297 292 423	0.0 0.0 0.0 0.0 0.0	5. 2 2. 8 0. 6 4. 0 1. 6	212 89 76 68 121 77
East South Central West South Central Mountain Pacific	5. 9 37. 3 56. 9 7. 9	0.0 0.0 0.0 0.0 0.0	64. 9 8. 6 8. 1 14. 2	17. 7 5. 7 0. 0 3. 2	348 100 220 250	5. 9 17. 2 8. 1 17. 4	153. 5 106. 2 138. 2 36. 4	0.0 0.0 0.0 1.6	142 66 390 267	0. 0 0. 0 0. 0 0. 0	0.0 0.0 8.1 0.0	77 14 179 68
Total	11. 3	0.5	11. 9	4.1	92	16. 4	78.0	0.5	264	0.0	2.0	90

# FOREIGN REPORTS

# CANADA

Provinces—Communicable diseases—Week ended February 10, 1945.— During the week ended February 10, 1945, cases of certain communicable diseases were reported by the Dominion Bureau of Statistics of Canada as follows:

Disease	Prince Edward Island	Nova Seotia	New Bruns- wick	Que- bec	On- tario	Mani- toba	Sas- katch- ewan	Al- berta	British Colum- bia	Total
Chickenpox Diphtheria Encephalitis, infectious	1	6 4	1 2	240 37	283 3	26 9	30	99	134	819 56
German measles		12		9	14		5	8	12 15	60 68
Influenza		8	4	148	45 69	9	11	21	300	563
CUS		2			2		1		1	6
Mumps		1		424	131	31	20	118	18 30	743
Scarlet feverSmallpox		7	2	66	101	13	5	47	30	271
Tuberculosis (all forms) Typhoid and paraty-		1	9	120	57	16	31	8	55	297
phoid fever		W		6	1	3				10
Undulant fever Venereal diseases:					î		2			3
Gonorrhea	1	25	19	54	175	32	24	27	30	387
Syphilis	1	4	8	78	99	9	10	13	28	250
Whooping cough		11		141	68	12	14	13	44	303

#### FRANCE

Diphtheria.—During the winter months of 1941, 1942, and 1943, the number of cases of diphtheria rose from 2,062 in November 1941 to 4,675 in December 1942, and to 5,844 in December 1943. The rate of sickness from diphtheria trebled from the year 1938 to 1943.

Tuberculosis—Cases.—The number of new cases of tuberculosis reported in the region of Paris, with the case rates per 100,000 population for the years 1937 to 1942, are as follows:

Year	Cases	Raté
1937	8, 471	300
1938	8, 608	305
1939	8, 359	315
1940	7, 569	327
1941	10, 569	455
1942	10, 059	443

The number of new cases of tuberculosis reported in 46 Departments in the German-occupied zone discloses an increase in 1942 of 16.4 percent over the number of new cases in 1938.

Tuberculosis—Deaths.—The following table shows the deaths per 100,000 for tuberculosis in all of France. No figures are available for the years 1939 to 1942:

Year	Rate
1933	
1935	 
1936	 
1938	 
1943	14

Typhoid fever.—The annual rate of sickness from typhoid fever rose from 9.8 in 1938 to 36.6 in 1942.

General mortality.—The following figures show the general mortality rate per 10,000 population in France exclusive of military deaths but including deaths resulting from bombardment and from the general exodus of 1940. The figures for 1943 are incomplete but it is expected the complete figures for 1943 will show a mortality rate as high as that for 1942:

Year	Deaths	Rate
1938	621, 417	155
1939	639, 435	155
1940	734, 550	182
1941	660, 279	174
1942	638, 298	168
1943	609, 596	164

Infant mortality.—The death rates per 1,000 births for children under 1 year of age for all of France are as follows:

Year	* *	Rate
1939		63
1940		91
1941		73
1942		70
1943		75

# **JAMAICA**

Notifiable diseases—4 weeks ended February 10, 1945.—During the 4 weeks ended February 10, 1945, cases of certain notifiable diseases were reported in Kingston, Jamaica, and in the island outside of Kingston, as follows:

Disease	Kingston	Other lo- calities	Disease	Kingston	Other lo- calities
Cerebrospinal meningitis Chickenpox Diphtheria Dysentery,(unspecified) Erysipelas Leprosy	2 15 7 7 2 1	2 18 9 38 1	Poliomyelitis Puerperal fever Scarlet fever Tuberculosis (pulmonary) Typhoid fever Typhus fever	31 11 3	1 3 1 73 92

# REPORTS OF CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER RECEIVED DURING THE CURRENT WEEK

Note.—Except in cases of unusual incidence, only those places are included which had not previously reported any of the above-mentioned diseases, except yellow fever, during the current year. All reports of yellow fever are published currently.

A table showing the accumulated figures for these diseases for the year to date is published in the Public Health Reports for the last Friday in each month.

(Few reports are available from the invaded countries of Europe and other nations in war zones.)

# Plague

French West Africa.—For the period February 1–10, 1945, 2 cases of plague were reported in French West Africa.

Madagascar.—For the period January 1–10, 1945, 6 cases of plague were reported in Madagascar.

# Smallpox

French Guinea.—For the period January 11-20, 1945, 108 cases of smallpox with 4 deaths were reported in French Guinea.

India.—Smallpox has been reported in India as follows: Calcutta, week ended February 3, 1945, 379 cases, 284 deaths. For the week ended February 3, 1945, 2,060 cases of smallpox with 385 deaths were reported in Madras Presidency, India.

Mexico.—For the month of December 1944, 135 cases of smallpox were reported in Mexico, including 68 cases in Vera Cruz State, 24 cases in Hidalgo State, and 21 cases in Guanajuato State.

Turkey.—For the week ended February 24, 1945, 18 cases of small-pox were reported in Turkey.

## **Typhus Fever**

Algeria.—For the period February 1-10, 1945, 74 cases of typhus fever were reported in Algeria.

Chile.—For the period December 3-30, 1944, 44 cases of typhus fever with 6 deaths were reported in Chile. Provinces reporting the highest incidence of the disease are: Concepcion, 11 cases, 1 death; Santiago, 8 cases, 4 deaths; Antofagasta, 7 cases; Valparaiso, 6 cases.

Ecuador.—For the month of January 1945, 44 cases of typhus fever with 3 deaths were reported in Ecuador, including 29 cases and 1 death in Quito.

Guatemala.—For the month of January 1945, 183 cases of typhus fever with 16 deaths were reported in Guatemala. Departments reporting the highest incidence of the disease are as follows: Alta Verapaz, 67 cases; Quezaltenango, 37 cases, 10 deaths; San Marcos, 26 cases, 2 deaths; Chimaltenango, 18 cases; Sacatepequez, 17 cases, 4 deaths.

Mexico.—For the month of December 1944, 246 cases of typhus fever were reported in Mexico. States reporting the highest incidence of the disease are as follows: Mexico, 86 cases; Puebla, 39; Mexico Federal District, 32; Hidalgo, 13; Queretaro, 10 cases.

Turkey.—For the week ended February 24, 1945, 79 cases of typhus fever were reported in Turkey.

# FEDERAL SECURITY AGENCY

# UNITED STATES PUBLIC HEALTH SERVICE

THOMAS PARRAN, Surgeon General

DIVISION OF PUBLIC HEALTH METHODS

G. St. J. PERBOTT, Chief of Division

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